



December 17, 2019

Non responsive based on revised scope

Weston Solutions Inc. West Chester
1400 Weston Way
Bldg 4-2
West Chester, PA 19380

Certificate of Analysis

Project Name: **WAR050|R35724**

Workorder: **3075489**

Purchase Order:

Workorder ID: **WAR050|R35724**

Dear **Non responsive based on revised scope**,

Enclosed are the analytical results for samples received by the laboratory on Friday, December 13, 2019.

The **Non responsive based on revised scope** is a National Environmental Laboratory Accreditation Program (NELAP) accredited laboratory and as such, certifies that all applicable test results meet the requirements of NELAP.

If you have any questions regarding this certificate of analysis, please contact **Non responsive based on revised scope**
Non responsive based on revised scope.

Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state requirements. The test results meet requirements of the current NELAP standards or state requirements, where applicable. For a specific list of accredited analytes, refer to the certifications section of the

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CC: **Non responsive based on revised scope**

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This page is included as part of the Analytical Report and must be retained as a permanent record thereof.

Project Coordinator

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SAMPLE SUMMARY

Workorder: 3075489 WAR050|R35724

| Lab ID | Sample ID | Matrix | Date Collected | Date Received | Collected By |
|------------|-----------|--------|------------------|------------------|---------------------|
| 3075489001 | C0B35 | Solid | 12/9/2019 14:50 | 12/13/2019 09:30 | Collected by Client |
| 3075489002 | C0B36 | Water | 12/12/2019 16:30 | 12/13/2019 09:30 | Collected by Client |

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SAMPLE SUMMARY

Workorder: 3075489 WAR050|R35724

Notes

- Samples collected by **Non res** personnel are done so in accordance with the procedures set forth in the **Non res** Field Sampling Plan (20 - Field Services Sampling Plan).
- All Waste Water analyses comply with methodology requirements of 40 CFR Part 136.
- All Drinking Water analyses comply with methodology requirements of 40 CFR Part 141.
- Unless otherwise noted, all quantitative results for soils are reported on a dry weight basis.
- The Chain of Custody document is included as part of this report.
- All Library Search analytes should be regarded as tentative identifications based on the presumptive evidence of the mass spectra. Concentrations reported are estimated values.
- Parameters identified as "analyze immediately" require analysis within 15 minutes of collection. Any "analyze immediately" parameters not listed under the header "Field Parameters" are performed in the laboratory and are therefore analyzed out of hold time.
- Method references listed on this report beginning with the prefix "S" followed by a method number (such as S2310B-97) refer to methods from "Standard Methods for the Examination of Water and Wastewater".
- For microbiological analyses, the "Prepared" value is the date/time into the incubator and the "Analyzed" value is the date/time out the incubator.
- An Analysis-Prep Method Cross Reference Table is included after Analytical Results & Qualifiers section in this report.

Standard Acronyms/Flags

| | |
|--------|--|
| J | Indicates an estimated value between the Method Detection Limit (MDL) and the Practical Quantitation Limit (PQL) for the analyte |
| U | Indicates that the analyte was Not Detected (ND) |
| N | Indicates presumptive evidence of the presence of a compound |
| MDL | Method Detection Limit |
| PQL | Practical Quantitation Limit |
| RDL | Reporting Detection Limit |
| ND | Not Detected - indicates that the analyte was Not Detected at the RDL |
| Cntr | Analysis was performed using this container |
| RegLmt | Regulatory Limit |
| LCS | Laboratory Control Sample |
| MS | Matrix Sp ke |
| MSD | Matrix Sp ke Duplicate |
| DUP | Sample Duplicate |
| %Rec | Percent Recovery |
| RPD | Relative Percent Difference |
| LOD | DoD Limit of Detection |
| LOQ | DoD Limit of Quantitation |
| DL | DoD Detection Limit |
| I | Indicates reported value is greater than or equal to the Method Detection Limit (MDL) but less than the Report Detection Limit (RDL) |
| (S) | Surrogate Compound |
| NC | Not Calculated |
| * | Result outside of QC limits |

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PROJECT SUMMARY

Workorder: 3075489 WAR050|R35724

Workorder Comments

A revised chain of custody was issued via email from Non Resp on 12/13/19

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ANALYTICAL RESULTS

Workorder: 3075489 WAR050|R35724

Lab ID: 3075489001

Date Collected: 12/9/2019 14:50

Matrix: Solid

Sample ID: C0B35

Date Received: 12/13/2019 09:30

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|--------------------------------|---------|------|-------|----------|------|-------------|--------------------|----------------|----------|---------|
| GASOLINE RANGE ORGANICS | | | | | | | | | | |
| Gasoline Range Organics | 16400 U | U | ug/kg | 16400 | 4750 | SW846 8015D | 12/13/19 08:00 CHS | 12/13/19 15:21 | Non resp | B |
| Surrogate Recoveries | Results | Flag | Units | Limits | | Method | Prepared | By | Analyzed | By Cntr |
| a,a,a-Trifluorotoluene (S) | 126 | | % | 72 - 134 | | SW846 8015D | 12/13/19 08:00 CHS | 12/13/19 15:21 | Non resp | B |
| PETROLEUM HC's | | | | | | | | | | |
| Diesel Range Organics C10-C28 | 4.2J | J | mg/kg | 11.6 | 3.2 | SW846 8015D | 12/15/19 16:25 J1H | 12/16/19 22:11 | Non resp | A |
| Diesel Range Organics C10-C28 | 4.2J | J | mg/kg | 11.6 | 3.2 | SW846 8015D | 12/15/19 16:25 J1H | 12/16/19 22:11 | Non resp | A |
| Oil Range Organics C28-C35 | 11.6 U | U | mg/kg | 11.6 | 2.3 | SW846 8015D | 12/15/19 16:25 J1H | 12/16/19 22:11 | Non resp | A |
| Surrogate Recoveries | Results | Flag | Units | Limits | | Method | Prepared | By | Analyzed | By Cntr |
| o-Terphenyl (S) | 86.6 | | % | 36 - 122 | | SW846 8015D | 12/15/19 16:25 J1H | 12/16/19 22:11 | Non resp | A |
| Surrogate Recoveries | Results | Flag | Units | Limits | | Method | Prepared | By | Analyzed | By Cntr |
| o-Terphenyl (S) | 86.6 | | % | 36 - 122 | | SW846 8015D | 12/15/19 16:25 J1H | 12/16/19 22:11 | Non resp | A |
| WET CHEMISTRY | | | | | | | | | | |
| Moisture | 11.3 | | % | 0.1 | 0.01 | S2540G-11 | | 12/14/19 09:45 | Non resp | |
| Total Solids | 88.7 | | % | 0.1 | 0.01 | S2540G-11 | | 12/14/19 09:45 | Non resp | |

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ANALYTICAL RESULTS

Workorder: 3075489 WAR050|R35724

Lab ID: 3075489002

Date Collected: 12/12/2019 16:30

Matrix: Water

Sample ID: C0B36

Date Received: 12/13/2019 09:30

| Parameters | Results | Flag | Units | RDL | MDL | Method | Prepared By | Analyzed | By | Cntr |
|--------------------------------|---------|------|-------|----------|------|-------------|-------------|----------------|----------|------|
| GASOLINE RANGE ORGANICS | | | | | | | | | | |
| Gasoline Range Organics | 100 U | U | ug/L | 100 | 29.0 | SW846 8015D | | 12/13/19 15:49 | | A |
| Surrogate Recoveries | Results | Flag | Units | Limits | | Method | Prepared | By | Analyzed | Cntr |
| a,a,a-Trifluorotoluene (S) | 120 | | % | 90 - 129 | | SW846 8015D | | 12/13/19 15:49 | | A |

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ANALYSIS - PREP METHOD CROSS REFERENCE TABLE

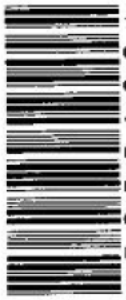
Workorder: 3075489 WAR050|R35724

| Lab ID | Sample ID | Analysis Method | Prep Method |
|------------|-----------|-----------------|-------------|
| 3075489001 | C0B35 | S2540G-11 | |
| 3075489001 | C0B35 | SW846 8015D | SW846 3546 |
| 3075489001 | C0B35 | SW846 8015D | SW846 5035 |
| 3075489002 | C0B36 | SW846 8015D | |

CHAIN OF CUSTODY RECORD

DAS #: R35724

Cooler #: 1



Lab:

3075489

[illegible]

Shipment for Case Complete? N

Samples Transferred From Chain of Custody #

received on 12/12/19,

Note: Bottle Tag # 2226

Instructions: Analyze TB for TP4600 in Tuzen H12114 20953


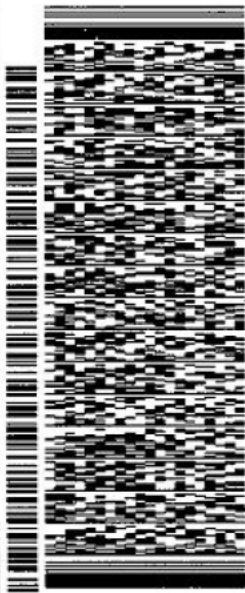
Analysis Key: TPH=TPH; GRO/DRO/ORO, Trace VOC=Trace VOCs by SOM02.4

| Items/Reason | Delivered by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|---|------------------|--|-----------------|-------------------------------|
| Good | (Boston) | 12/12/19 1700 | | | |
| | Fedex | | | 12/13/19 920 | Good |

12DEC19
0.00 LB
9278/INET4160
1x17 IN
ER

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567.2/18DC/05A2





TRK# 7772 3179 3045
0201

FRI - 13 DEC 10:30A
PRIORITY OVERNIGHT

EN MDTA

17057
PA-US MDT



After printing this label:

1. Use the 'Print' button on this page to print your label to your laser or inkjet printer.
2. Fold the printed page along the horizontal line.
3. Place label in shipping pouch and affix it to your shipment so that the barcode portion of the label can be read and scanned.

Warning: IMPORTANT: TRANSMIT YOUR SHIPPING DATA AND PRINT A MANIFEST:

At the end of each shipping day, you should perform the FedEx Ground End of Day Close procedure to transmit your shipping data to FedEx. To do so, click on the Ground End of Day Close Button. If required, print the pickup manifest that appears. A printed manifest is required to be tendered along with your packages if they are being picked up by FedEx Ground. If you are dropping your packages off at a FedEx drop off location, the manifest is not required.

Use of this system constitutes your agreement to the service conditions in the current FedEx Service Guide and applicable tariff, available upon request. FedEx will not be responsible for any claim in excess of \$100 per package, document your actual loss and file a timely claim. Limitations, including limitations on our liability, can be found in the current FedEx Service Guide and applicable tariff apply. In no event shall FedEx Ground be liable for any special, incidental, or consequential damages, including, without limitation, loss of profit, loss to the intrinsic value of the package, loss of sale, interest income or attorney's fees. Recovery cannot exceed actual documented loss. Items of extraordinary value are subject to separate limitations of liability set forth in the Service Guide and tariff. Written claims must be filed within strict time limits, see current FedEx Service Guide.

3073484

Precautionary Measures Against Hidden Hazards in Laboratory Samples

Notice to Laboratory PersonnelBackground

Under the authority of Section 104 of the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA or Superfund) of 1980, Section 311 of the Clean Water Act, and Subtitle I of the Resource Conservation and Recovery Act (RCRA), EPA has been delegated the responsibility to undertake response actions with respect to the release or potential release of oil, petroleum or hazardous substances that pose a substantial threat to human health or welfare, or the environment. In addition, EPA provides technical assistance to help mitigate endangerment of the public health, welfare or environment during other emergencies and natural disasters.

EPA's successful implementation of these emergency response action responsibilities requires that technical support capabilities be provided in the form of contracted Superfund Technical Assessment and Response Team (START) teams for each EPA Region. The Weston Solutions Inc. (WESTON) START Region III Eastern Area Contract provides support to EPA Region III.

Hazard Communication

The samples which accompany this notice have been shipped to your laboratory for analysis in accordance with applicable DOT or IATA Regulations and were collected by the WESTON START team and were tentatively designated by the field response team as either environmental or hazardous material samples.

In general, *Environmental Samples* are collected from streams, farm ponds, small lakes, wells and off-site soils that are not reasonably expected to be contaminated with hazardous materials. Samples of on-site soils or water and materials collected from drums, bulk storage tanks, obviously contaminated ponds, impoundments, lagoons, pools, and leachates from hazardous waste sites are considered *Hazardous Samples*. Samples which are obtained from a known radioactive material contamination site or which demonstrate beta or gamma activity greater than three times the average background as scanned with a Geiger-Mueller radiation survey meter are considered *Radioactive Samples*.

The samples which accompany this notice have been tentatively classified by the field response team as:

☒ Environmental ☐ Hazardous ☐ Combination (Env. & Haz) ☐ Radioactive

The field team which collected the samples used the following Level(s) of personal protection as designated by EPA and OSHA conventions to provide protection against possible radiological or chemical exposure:

☐ Level A ☐ Level B ☐ Level C ☒ Level D

This information is intended for use as a guide for the safe handling of these laboratory samples in accordance with EPA and OSHA regulations. The sample classification(s) and Levels of personal protection used by the WESTON START team are not represented to be, nor are they adequate or applicable in all situations, nor are they intended to serve as substitutes for professional/personal judgment.

This form was prepared by Non responsive based on revised scope

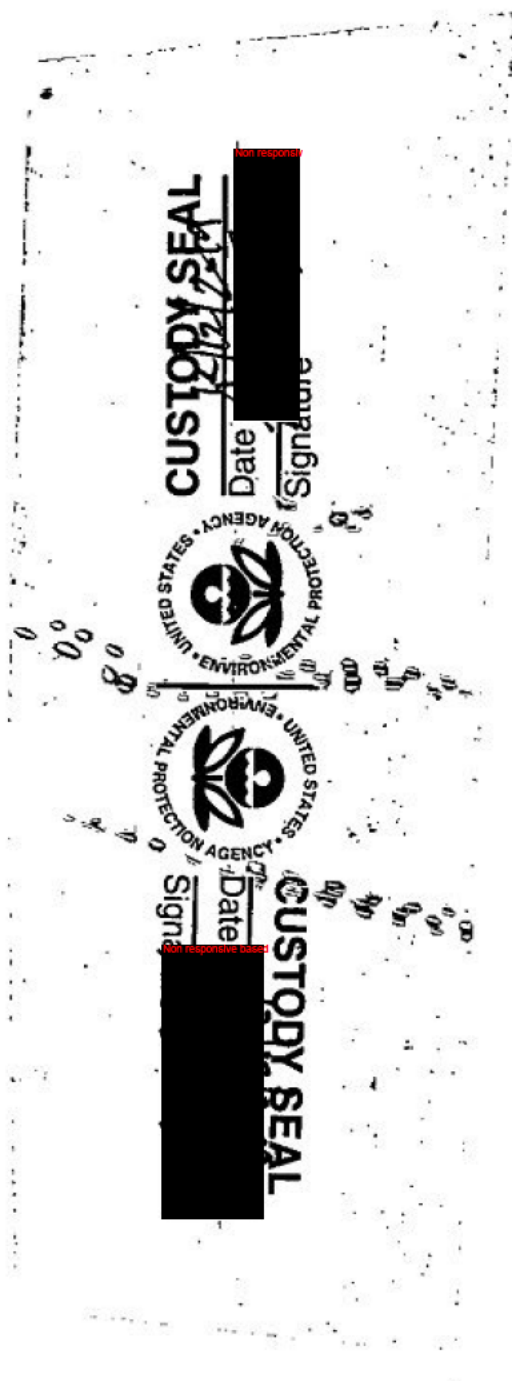
Analytical Services TDD No. or Case No.: R35724

Weston Solutions, Inc. Office: West Chester, PA

Phone: Non responsive based on revised scope

Laboratory Name: Non responsive based on revised scope

3073489



Condition of Sample Receipt Form

Client: Weston Work Order #: 307 5489 Initials: [redacted] Date: 12/13

1. Were airbills / tracking numbers present and recorded?..... NONE ☒ YES NO
Tracking number: 7772 3179 3045
2. Are Custody Seals on shipping containers intact?..... NONE ☒ YES NO
3. Are Custody Seals on sample containers intact?..... NONE ☒ YES NO
4. Is there a COC (Chain-of-Custody) present?..... ☒ YES NO
5. Are the COC and bottle labels complete, legible and in agreement?..... ☒ YES NO
- 5a. Does the COC contain sample locations?..... ☒ YES NO
- 5b. Does the COC contain date and time of sample collection for all samples?..... ☒ YES NO
- 5c. Does the COC contain sample collectors name? By client..... ☒ YES ☒ NO
- 5d. Does the COC note the type(s) of preservation for all bottles?..... ☒ YES NO
- 5e. Does the COC note the number of bottles submitted for each sample?..... ☒ YES NO
- 5f. Does the COC note the type of sample, composite or grab?..... ☒ YES NO
- 5g. Does the COC note the matrix of the sample(s)? No matrix..... ☒ YES ☒ NO
6. Are all aqueous samples requiring preservation preserved correctly?..... ☒ N/A YES NO
7. Were all samples placed in the proper containers for the requested analyses, with sufficient volume?..... YES NO
8. Are all samples within holding times for the requested analyses?..... YES NO
9. Were all sample containers received intact and headspace free when required? (not broken, leaking, frozen, etc.)..... YES NO
10. Did we receive trip blanks (applies only for methods EPA 504, EPA 524.2 and 1631E (LL Hg)?..... ☒ N/A YES NO
11. Were the samples received on ice?..... ☒ YES NO
12. Were sample temperatures measured at 0.0-6.0°C..... ☒ YES NO
13. Are the samples DW matrix ? If YES, fill out Reportable Drinking Water questions below..... YES ☒ NO
- 13a. Are the samples required for SDWA compliance reporting?..... N/A YES NO
- 13b. Did the client provide a SDWA PWS ID#?..... N/A YES NO
- 13c. Are all aqueous unpreserved SDWA samples pH 5-9?..... N/A YES NO
- 13d. Did the client provide the SDWA sample location ID/Description?..... N/A YES NO
- 13e. Did the client provide the SDWA sample type (D, E, R, C, P, S)?..... N/A YES NO

Cooler #: Soil Water

Temperature (°C): 6 5

Thermometer ID: 318 316

Radiological (µCi): _____

COMMENTS (Required for all NO responses above and any sample non-conformance):

**REGION 3 DELIVERY OF ANALYTICAL SERVICES (DAS)
SAMPLE DELIVERY GROUP (SDG)
COVER SHEET**

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Laboratory Name: _____

Laboratory Code: _____

Case or DAS No.: R35724SDG No: First Sample in SDG: COB35
(Lowest EPA Sample Number in first shipment
received under SDG.)Sample Receipt Date: 12/13/2019
mm/dd/yyyyLast Sample in SDG: COB36
(Highest EPA Sample Number in last shipment
of samples received under SDG.)Sample Receipt Date: 12/13/2019
mm/dd/yyyy

EPA Sample Numbers in the SDG (List in alphanumeric order):

1. COB35
2. COB36
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____

11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

Note: Non responsive based on revised scope SDG.

Comments: _____

Sample Rev tech

Title

12/13/19

Date

Please make copies of this form and complete one form per SDG and e-mail the completed form within 3 days of receipt of the last sample received for each SDG to the WESTON Project Chemist. Include this form after the DAS Case narrative as a deliverable in the final hardcopy data package.

Region III DC-1 SAMPLE LOG-IN SHEET

LOG-IN DATE: 12/13/2019

DAS No.: R35724

LAB NAME: Non responsive based on revised scope

SDG No.:

RECEIVED BY

SIGNATURE

CHECK THE APPROPRIATE RESPONSE.

| | PRESENT | ABSENT | INTACT | BROKEN |
|--|---------------|--------|--------|--------|
| 1. CUSTODY SEAL(S) | ✓ | | ✓ | |
| 2. CHAIN OF CUSTODY (COC) RECORD | ✓ | | | |
| 3. TRAFFIC REPORT OR PACKING LIST | | ✓ | | |
| 4. AIRBILL / STICKER | ✓ | | | |
| 5. SAMPLE TAGS | ✓ | | | |
| 6. SAMPLE TAG NUMBERS ON CHAIN OF CUSTODY | ✓ | | | |
| 7. DATE RECEIVED BY LAB: | 12/13/19 | | | |
| 8. TIME RECEIVED: | 0930 | | | |
| 9. DOES INFORMATION AGREE ON COC AND SAMPLE TAGS | yes | | | |
| 10. AIRBILL NUMBER | 772 3179 3045 | | | |

| SAMPLE TRANSFER | | |
|-----------------|------|----|
| FRACTION | DATE | BY |
| | | |
| | | |
| | | |
| | | |

REVIEWED BY:

DATE:

LOGBOOK NO.:

LOGBOOK PAGE NO.:

Region 3 - Form DC-1

Region 3 – Form DC-1

Attachment 3
DC- 2 Data Package Inventory Checklist

| | | |
|---------------|-------------|-------------|
| Lab Name: | DAS Number: | SDG Number: |
| City: | State: | Zip Code: |
| Order Number: | Parameter: | |

| | Page Numbering | | Check/Verification | |
|--------------------------------|----------------|----------|--------------------|-----|
| | From | TO | Lab | EPA |
| Inventory Sheet | XXXXXXXX | XXXXXXXX | | |
| SDG Narrative | 1 | | | |
| SDG Cover Sheet with COCs | | | | |
| QC Data | | | | |
| Sample Data | | | | |
| Standard Data | | | | |
| Blank Data | | | | |
| Raw Data | | | | |
| Preparation Logs | | | | |
| Clean-up Logs | | | | |
| Analysis Logs | | | | |
| Internal Chain of Custody Logs | | | | |
| Shipping / Receiving Documents | | | | |
| Telephone / e-mail Logs | | | | |
| Other Records | | | | |

| | | | |
|--------------|---------------|------------------|--------------|
| Organization | Lab Inventory | Region 3 Auditor | EPA Verifier |
| Print Name | | | |
| Title | | | |
| Date | | | |
| Signature | | | |

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[illegible]

| | |
|------------------------------------|---|
| Special Instructions: | Shipment for Case Complete? N |
| | Samples Transferred From Chain of Custody # |
| Analysis Key: TPH=TPH: GRO/DRO/ORO | |

| Items/Reason | Relinquished by (Signature and Organization) | Date/Time | Received by (Signature and Organization) | Date/Time | Sample Condition Upon Receipt |
|--------------|--|-----------|--|-----------|-------------------------------|
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |